

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 197 AND BOWIE RD/CLUBHOUSE BLVD. IN PRINCE GEORGE'S COUNTY TO INCLUDE APS/PS, LED TRAFFIC SIGNAL HEADS AND VIDEO DETECTION CAMERAS. MD 197 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A FIVE-PHASE SEMI-ACTUATED MODE WITH EXCLUSIVE-PERMISSIVE LEFT TURN PHASES FOR NORTHBOUND AND SOUTHBOUND MD 197. THIS INTERSECTION INCLUDES NORTHBOUND AND SOUTHBOUND MD 197 PRE-EMPTION PHASES. THERE IS AN ALTERNATE PEDESTRIAN PHASE BEING ADDED FOR THE EAST LEG OF THIS INTERSECTION.

EQUIPMENT LIST FOR CONTRACT NO. XX4395185

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

ITEM	QUANTITY	UNIT	DESCRIPTION
9000	1	EA	SIZE 'S' CABINET WITH CONTROLLER AND VIDEO INTERFACE EQUIPMENT: 1-8 CAMERAS
9000	1	EA	UNINTERRUPTIBLE POWER SUPPLY AND EQUIPMENT
9016	2	EA	[UPDATED] 4 CHANNEL DETECTOR AMPLIFIER
9570	147	SF	[UPDATED] SHEET ALUMINUM GROUND MOUNTED SIGN
	7	EA	W11-2 (36" X 36")
	3	EA	W16-7p(R) (30" X 18")
	3	EA	W16-7p(L) (30" X 18")
	2	EA	R3-7(R) (30" X 30")
	1	EA	W6-3 (36" X 36")
	3	EA	R4-7 (24" X 30")
	2	EA	R5-1 (30" X 30")
	2	EA	R6-1(L) (36" X 12")
	2	EA	OM1-3 (18" X 18")
	1	EA	W13-4(l) (24" X 36")
9571	125	SF	[UPDATED] SHEET ALUMINUM MAST ARMPOLE MOUNTED SIGN
	4	EA	R10-3(l) (9" X 15") POLE MOUNTED
	3	EA	D-3(l) (VAR. X 16") MAST ARM MOUNTED (DUAL-FACE)
	1	EA	R3-6 (30" X 36") MAST ARM MOUNTED
	1	EA	R3-5(L) (30" X 36") MAST ARM MOUNTED
	1	EA	R3-5(R) (30" X 36") MAST ARM MOUNTED
	1	EA	M1-5(6) (48" X 72") POLE MOUNTED
	1	EA	M1-5(6) (30" X 48") POLE MOUNTED

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

ITEM	QUANTITY	UNIT	DESCRIPTION
1001	1	EA	MAINTANANCE OF TRAFFIC
2001	4	CY	CLASS 2 EXCAVATION
2002	1	CY	TEST PIT EXCAVATION
5001	1	EA	REMOVAL OF EXISTING PERMANENT PAVEMENT MARKINGS SYMBOLS OR LEGENDS
5003	600	LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS
5004	200	LF	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
5005	50	LF	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
5006	162	SF	WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS
6001	200	LF	STANDARD TYPE A COMBINATION CURB & GUTTER 12 INCH PAN 8 INCH DEPTH
6002	675	SF	5 INCH CONCRETE SIDEWALK
6003	30	SF	DETECTABLE WARNING SURFACE FOR CURB RAMPS
8001	27	EA	12 INCH LED SIGNAL HEAD SECTION
8002	1	EA	2-WIRE CENTRAL CONTROL UNIT
8004	6	EA	8 INCH LED SIGNAL HEAD SECTION
8007	2	EA	ANY SIZE LIGHTING ARM ON SIGNAL POLE WITH 250 WATT HPS LAMP AND LUMINAIRE
8008	4	EA	AUDIBLE TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGN
8009	3	EA	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8012	1	EA	EMBEDDED METERED SERVICE PEDESTAL
8014	1	EA	INSTALL CONTROLLER AND CABINET BASE MOUNT (ANY SIZE)
8016	2	EA	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD
8021	1	EA	MAST ARM POLE & 70' MAST ARM ANY 'T' DIMENSION
8023	5	EA	NONINVASIVE DETECTOR (ANY LENGTH) LEAD IN CABLE UP TO 1000'
8024	1	EA	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8027	1	EA	TWIN MAST ARM POLE & 50/70' MAST ARMS ANY 'T' DIMENSION
8029	3	EA	VIDEO DETECTION CAMERA AND CABLE ANY LENGTH
8033	445	LF	4 CONDUCTOR OPTICOM CABLE
8034	850	LF	DISCONNECT, PULL-BACK & REROUTE CABLES
8035	300	LF	ELECTRICAL CABLE - 2-CONDUCTOR (NO. 12 AWG) TYPE T/C
8038	550	LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED
8040	325	LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
8041	275	LF	WOOD SIGN SUPPORTS UP TO 4' X 6'
8042	272	SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8044	350	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8047	15	LF	ELECTRICAL CABLE 1-CONDUCTOR NO. 8 AWG-THHN/THWN
8048	8	EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8049	1	EA	DISCRIMINATOR MODULE, 4 CHANNEL, NO. 764
8051	2	EA	OPTICOM NO. 721 DETECTOR EYE
8055	975	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8057	560	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8058	1125	LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)

C. EQUIPMENT TO BE REMOVED.

SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. ALL OTHER EXISTING SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL.

PROJECT CONTACTS

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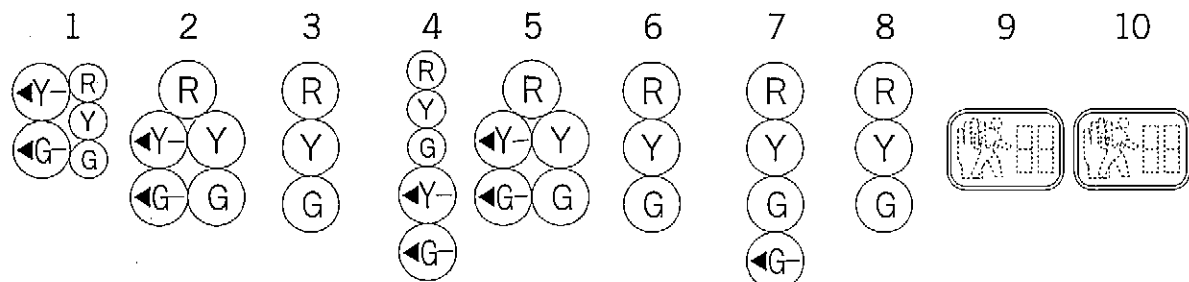
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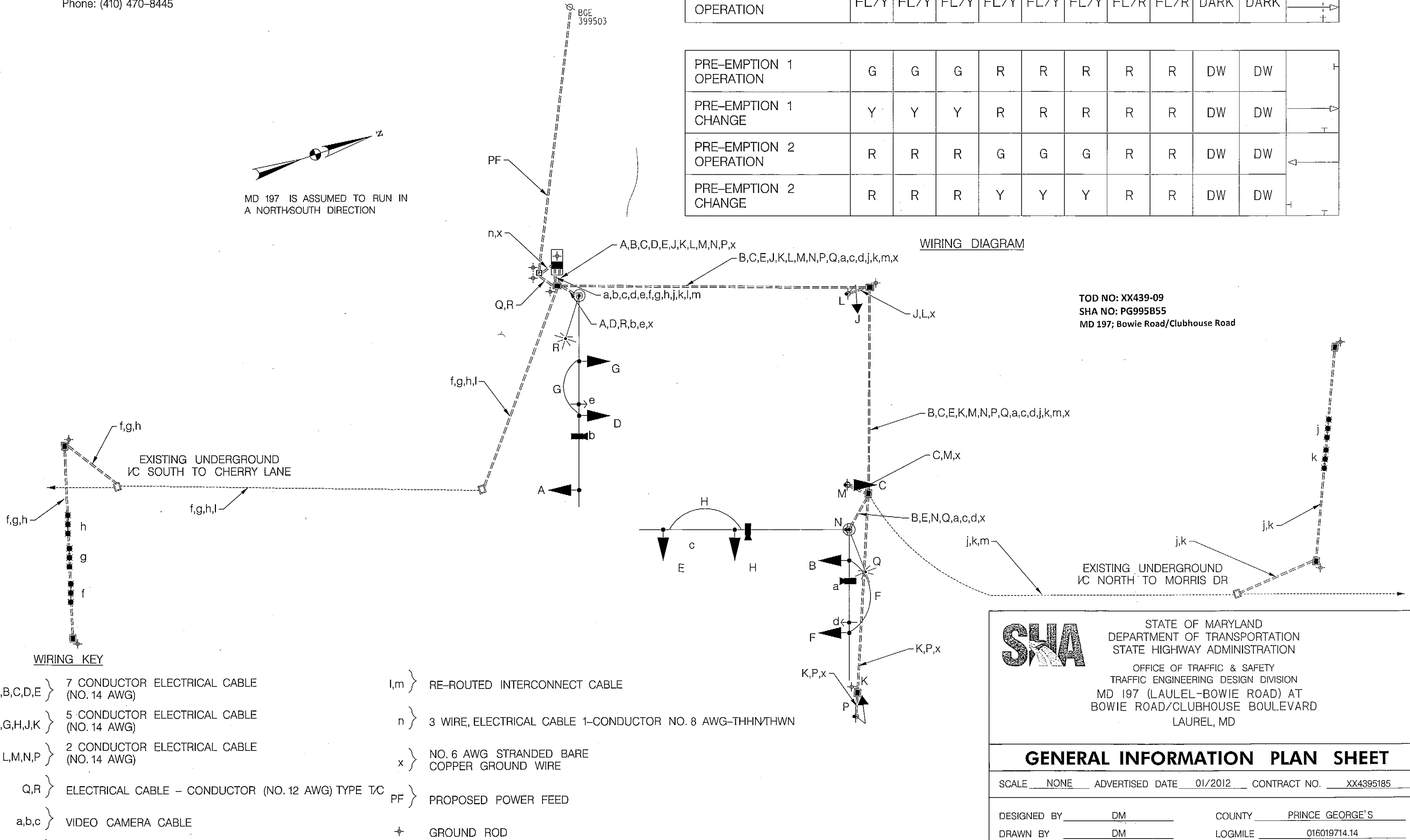
PHASE CHART



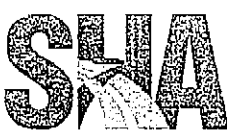
PHASE 1 AND 5	←G/R	←G/R	R	←G/R	←G/R	R	R	R	DW	DW
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6										
PHASE 1 AND 6	←G/G	←G/G	G	R	R	R	R	R	DW	DW
1 AND 6 CHANGE	←Y/Y	←Y/Y	Y	R	R	R	R	R	DW	DW
PHASE 2 AND 5	R	R	R	←G/G	←G/G	G	R	R	DW	DW
5 CHANGE	R	R	R	←Y/G	←Y/G	G	R	R	DW	DW
PHASE 2 AND 6	G	G	G	G	G	G	R	R	DW	DW
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	DW	DW
PHASE 4	R	R	R	R	R	R	←G/G	G	DW	DW
4 CHANGE	R	R	R	R	R	R	Y	Y	DW	DW
PHASE 4 ALT	R	R	R	R	R	R	←G/G	G	WK	WK
PED CLEARANCE	R	R	R	R	R	R	←G/G	G	FL/DW	FL/DW
4 ALT CHANGE	R	R	R	R	R	R	Y	Y	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	DARK	DARK

PRE-EMPTION 1 OPERATION	G	G	G	R	R	R	R	R	DW	DW
PRE-EMPTION 1 CHANGE	Y	Y	Y	R	R	R	R	R	DW	DW
PRE-EMPTION 2 OPERATION	R	R	R	G	G	G	R	R	DW	DW
PRE-EMPTION 2 CHANGE	R	R	R	Y	Y	Y	R	R	DW	DW

WIRING DIAGRAM



TOD NO: XX439-09
SHA NO: PG995B55
MD 197, Bowie Road/Clubhouse Road



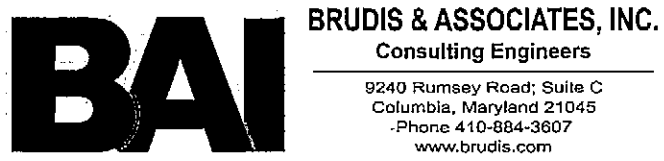
STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 197 (LAUREL-BOWIE ROAD) AT
BOWIE ROAD/CLUBHOUSE BOULEVARD
LAUREL, MD

GENERAL INFORMATION PLAN SHEET

SCALE NONE ADVERTISED DATE 01/2012 CONTRACT NO. XX4395185

DESIGNED BY DM COUNTY PRINCE GEORGE'S
DRAWN BY DM LOGMILE 016019714.14
CHECKED BY RM TMS NO. K308
F.A.P. NO. TOD NO.

TS NO. 2623C DRAWING - OF SHEET NO. 3 OF 3



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PLOTTED: Tuesday, February 21, 2012 AT 04:00 PM
FILE: P:\09-002 TEDD\Task 59 MD 197 @ Bowie Rd\Drawings\CADD\Working\pGG-P009_MD197@CLUBHOUSE.dgn